Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the

application. Applicant has submitted a new complete claim set showing marked up

claims with insertions indicated by underlining and deletions indicated by strikeouts

and/or double bracketing.

Listing of Claims:

1. (Currently amended) For use with a search engine that processes user queries, a

system that locates documents containing words corresponding to a user query

comprising:

a processor;

memory;

an infrequent word identifier that identifies infrequent words that occur in less

than a threshold number of documents;

a frequent word index that maps the location of documents that contain words

that occur in more than the threshold number of documents;

an infrequent word index, maintained separately from the frequent word index,

that maps the location of documents that contain the infrequent words;

and

an index scanning component that, in response to a query containing an

infrequent word, scans the infrequent word index to find the location of

documents containing the infrequent word.

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2. (Original) The system of claim 1 wherein the frequent word index is stored by

document.

3. (Original) The system of claim 1 wherein the frequent word index is partitioned

by document.

4. (Original) The system of claim 3 wherein the frequent word index is distributed

across multiple computing systems.

5. (Original) The system of claim 1 wherein the infrequent word index is stored by

document.

6. (Original) The system of claim 1 wherein the infrequent word index is partitioned

by document.

7. (Previously Presented) The system of claim 6 wherein the infrequent word index

is distributed across multiple computing systems.

8. (Original) The system of claim 1 wherein the infrequent word index is stored by

word.

9. (Original) The system of claim 1 wherein the infrequent word index is partitioned

by word.

10. (Previously Presented) The system of claim 9 wherein the infrequent word index

is stored on a single computing system.

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11. (Original) The system of claim 10 wherein the index scanning component, in

response to a user guery containing an infrequent word, retrieves document locations

for documents having the infrequent word from the infrequent word index and

transmits the retrieved document locations to computer systems containing frequent

word indexes for the retrieved documents.

12. (Previously Presented) The system of claim 1 further comprising an index cache

associated with the infrequent word index that stores document locations for recently

queried infrequent words.

13. (Previously Presented) For use with a search engine that processes user queries,

a method that searches a set of documents for documents containing terms found in a

user query comprising:

scanning the set of documents and gathering infrequent words that occur fewer

times than a threshold number in the set of documents:

constructing an infrequent word index that maps the infrequent words to

locations of documents that contain the infrequent words;

constructing a frequent word index, separately maintained from the infrequent

word index, that maps frequent word that occur in a number of

documents of the set of documents that is greater than the threshold

amount to locations of documents that contain the frequent words;

examining the terms in the user query to identify infrequent words; and

searching the infrequent word index for the identified infrequent words.

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14. (Previously Presented) The method of claim 13 further comprising storing the

infrequent word index in a dedicated computer system.

15. (Previously Presented) The method of claim 13 further comprising storing the

infrequent word index in dedicated partitions on computer systems that store the

frequent word index.

16. (Previously Presented) The method of claim 13 further comprising storing the

infrequent word index by word.

17. (Previously Presented) The method of claim 13 further comprising storing the

infrequent word index by document.

18. (Previously Presented) A computer readable storage medium comprising

computer-executable instructions that, when implemented, perform the method of

claim 13.

19. (Previously Presented) For use with a search engine that processes user queries,

a computer readable medium comprising computer-executable instructions that, when

implemented, perform a method comprising:

identifying infrequent words that occur in less than a threshold number of

documents;

mapping, in a frequent word index, the location of documents that contain

frequent words that occur in more than the threshold number of

documents;

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maintaining, separately from the frequent word index, an infrequent word index

that maps the location of documents that contain the infrequent words;

and

in response to a query containing an infrequent word, scanning the infrequent

word index to find the location of documents containing the infrequent

word.

20. (Original) The computer readable medium of claim 19 wherein the infrequent

word index is stored by document.

21. (Original) The computer readable medium of claim 19 wherein the infrequent

word index is partitioned by document.

22. (Previously Presented) The computer readable medium of claim 19 wherein the

infrequent word index is distributed across multiple computing systems.

23. (Previously Presented) The computer readable medium of claim 19 wherein the

infrequent word index is stored by word.

24. (Original) The computer readable medium of claim 19 wherein the infrequent

word index is partitioned by word.

25. (Previously Presented) The computer readable medium of claim 19 wherein the

infrequent word index is stored on a single computing system.

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26. (Previously Presented) The computer readable medium of claim 19 further

comprising creating an index cache associated with the infrequent word index that

stores document locations for recently queried infrequent words.

27. (Previously Presented) For use with a search engine that processes user queries,

an apparatus for searching set of documents for documents containing terms found in a

user query comprising:

means for scanning the set of documents and gathering infrequent words that

occur a number of times that is less than a threshold amount in a number

of documents:

means for constructing an infrequent word index that maps the infrequent words

to locations of documents that contain the infrequent word;

means for constructing a frequent word index, separately maintained from the

infrequent word index, that maps frequent words that occur in a number

of documents that is greater than the threshold amount to location of

documents that contain the frequent word;

means for examining the terms in the user query to identify infrequent words;

and

means for searching the infrequent word index for the identified infrequent

words.

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